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APPLICATION N	IO. FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/081,294 02/21/2002		02/21/2002	Kimmo Alanen	460-010837-US(PAR)	460-010837-US(PAR) 9809	
2512	7590	02/10/2006		EXAM	EXAMINER	
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FAIRFIELD, CT 06824				ART UNIT	ART UNIT PAPER NUMBER 3662	
				3662		

DATE MAILED: 02/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/081,294	ALANEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Gregory C. Issing	3662				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 No.	ovember 2005.					
· <u> </u>	action is non-final.					
3) Since this application is in condition for allowar		secution as to the	e merits is			
closed in accordance with the practice under E	•					
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-22 is/are rejected.	· · · ———					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
10) The drawing(s) filed on is/are: a) acce		Examiner				
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·					
Replacement drawing sheet(s) including the correct		, ,	ED 1 121/d)			
11) The oath or declaration is objected to by the Ex			• •			
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 35 LLS C & 110(a)	(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
<u> </u>		an Na				
2. Certified copies of the priority documents	• •		04-			
3. Copies of the certified copies of the prior	•	ed in this National	Stage			
• •	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)			
Paper No(s)/Mail Date	6) Other:	The second section of the section of the section of the second section of the section of t	,			

Art Unit: 3662

- 1. The fax copy of the RCE Transmittal sheet, faxed 11/30/2005, is acknowledged. The faxed copy includes a signed copy of the RCE Transmittal.
- 2. At the outset, a clarification of the claim language is set forth. The claim terminology "to predict a pseudorange" is read in light of the specification, and thus is interpreted by the Examiner as meaning "to estimate a pseudorange." It is not evident how or where an actual prediction is made since the pseudorange appears to be computed according to the specification.
- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior
 Office action.
- 4. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bloebaum et al (6,433,735) in view of Krasner (6,133,874).
- 5. Bloebaum et al disclose a method and apparatus for positioning a wireless communication device (110/200) wherein a database (210/210a) correlates respective cell IDs of base stations with base station position information, e.g. Figs. 3/4; this corresponds to the claimed storing of position data of reference points. The communication device receives the cell ID from the base station in which it is associated and thus is in its vicinity; this corresponds to the claimed examining which reference point is located in the vicinity of the communication device. If the database is at a server, the server transmits the position data, aiding data, to the communication device; this corresponds to the claimed transmitting position data about the reference point. As exemplified in Figure 5, and described in the specification (5:66-6: 18), the positioning processor utilizes the position entry corresponding to the matched cell-ID information to compute a current position estimate also using position information from a positioning satellite. The cellindexed location database is capable of aiding in position computation (6:64-67). Thus, Bloebaum clearly specify the use of the position data of the reference station and satellite signal information to compute a position estimate. In a GPS receiver, signal measurements of the incoming signal are correlated with pseudonoise codes for determining time-of-transit from respective satellites (4:5-8); this measurement of time-of-transit is corresponds to a pseudorange measurement.
- 6. Although Bloebaum et al are considered to substantially disclose the claimed invention via the apparent inherency of using the cell-indexed location as a default location to be used in computing a

Application/Control Number: 10/081,294 Page 3

Art Unit: 3662

position estimate wherein a position determination in GPS inherently determines a pseudorange, the following citation to Krasner provides evidence of the nature of such. Krasner discloses the following factual statements: (I) there are two principal functions of GPS receiving systems (1) computation of pseudoranges to the varius satellites and (2) computation of the position of the receiving platform using these pseudoranges and satellite timing and ephemeris data (1:39-45); (II) an approximate location of the receiver is determined from a cell-based information source and an estimated pseudorange for a particular satellite is determined from time of day, the determined approximate location of the receiver, and satellite position information of the particular satellite (4:50-65); and (III) it is desirable to limit search range during initial signal acquisition to reduce the search time, and the method and apparatus substantially defined by (II) provides such (4:35-65).

- 7. Thus, should the teachings of Bloebaum et al not be considered as inherently teaching the use of the cell-based location entry as a default location in the estimation of the communication device position nor inherently teaching that a pseudorange is necessarily computed in the determination of position using time-of-transit measurement and the cell-based location entry, it would have been obvious to one having ordinary skill in the art to perform such in view of the teachings of Krasner as set forth above. The dependent claims are shown and/or are obvious in light of the intended uses of the mobile, combined navigation/communication device.
- 8. Applicant argues that Bloebaum fails to suggest using the reference points to predict a pseudorange between the communication device and a satellite. Applicant also argues that the Examiner's statement that Bloebaum utilize the position associated with the cell-ID as a default location is incorrect and that the position information is merely directed to "aiding data" for improving TTFF or increasing the sensitivity of the mobile terminal.
- 9. The applicant's arguments are not convincing. Firstly, Bloebaum et al teach that in a GPS receiver, an incoming signal is correlated with PN codes to determine time-of-transit from the respective satellites this corresponds to a pseudorange measurement and there is no distinction therebetween. Secondly, Krasner further supports such via the fact that one of the two major functions of a GPS receiver is the computation of pseudoranges. Thirdly, in both Bloebaum et al and Krasner, the approximate

Art Unit: 3662

location of the GPS receiver as derived from a cell-ID location entry is utilized in the computation of user position. Thus, the cell-ID location entries are used in the position computations of the prior art wherein position computation necessarily includes the determination of pseudoranges. Applicant disagrees with the Examiner's characterization of the position of the base station in Bloebaum et al as a default location instead alleging that the position of the base station is only used for aiding data provided to improve the performance of the mobile terminal such as by reducing the TTFF or increasing the sensitivity of the mobile terminal. This argument is not persuasive since Bloebaum et al state that the mobile terminal is configured to identify an approximate geographic position of the mobile terminal by accessing a database (1:44-46) and subsequently utilizing the approximate geographic position associated with the database to determine the geographic location (1:52-60). There is nothing to distinguish the approximated geographic position derived from the database from the claimed "default position."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory C. Issing whose telephone number is (571)-272-6973. The examiner can normally be reached on Monday - Thursday 6:00 AM- 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas Tarcza can be reached on (571)-272-6979. The fax phone number for the organization where
this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application
Information Retrieval (PAIR) system. Status information for published applications may be obtained from
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at 866-217-9197 (toll-free).

Gregory C. Issing Primary Examiner

Art Unit 3662